

5. Which testing strategy ensures that the software meets customer expectations? CO5K2
 a) System Testing b) Validation Testing
 c) Unit Testing d) Performance Testing
6. Which type of testing focuses on verifying software logic and structure? CO5K3
 a) Black Box Testing b) Regression Testing
 c) White Box Testing d) User Acceptance Testing

Part B

3 x 6 = 18

**Answer ALL three questions
 The answer should not exceed 400 words or one page**

7. a. Explain the key tasks involved in Requirements Engineering. CO2K2
 (or)
7. b. Explain the purpose of the Inception phase in Requirements Engineering. CO2K3
8. a. Explain Flow-Oriented Modeling with an example. CO3K3
 (or)
- 8 .b. Describe the role of Design Patterns in software engineering. CO3K4
- 9.a. Describe the concept of Control Structure Testing with an example. CO5K4
 (or)
- 9 .b. Explain the Verification and Validation process in software testing. CO5K3

Part C

3 x 12 = 36

**Answer ALL three questions
 The answer should not exceed 400 words or four pages**

- 10.a. Explain the process of Requirements Validation and its importance in software development. CO2K3
 (or)
10. b. Explain the complete process of Requirements Engineering, covering all key phases. CO2K3
- 11 .a. Explain the Design Process and Design Quality with key considerations. CO4K3
 (or)
- 11.b. Discuss the importance of Software Architecture and the key factors affecting its quality. CO3K4
- 12 .a. Discuss different Software Testing Strategies used in conventional software development. CO5K4
 (or)
- 12 .b. Explain the concept of Business Process Reengineering (BPR) and its benefits in software engineering. CO5K3

Number of copies: 45

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